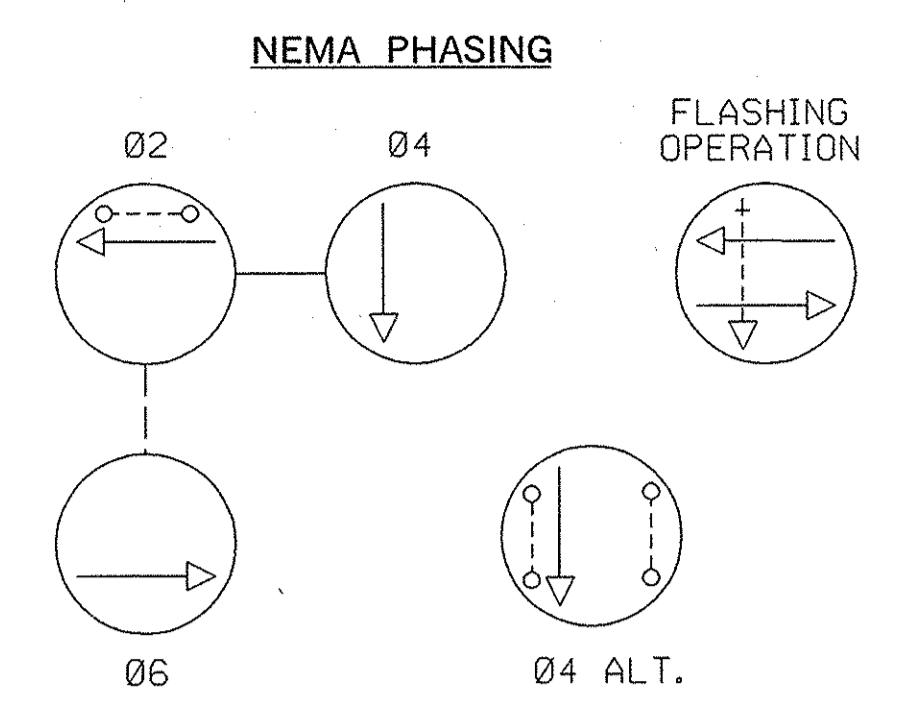
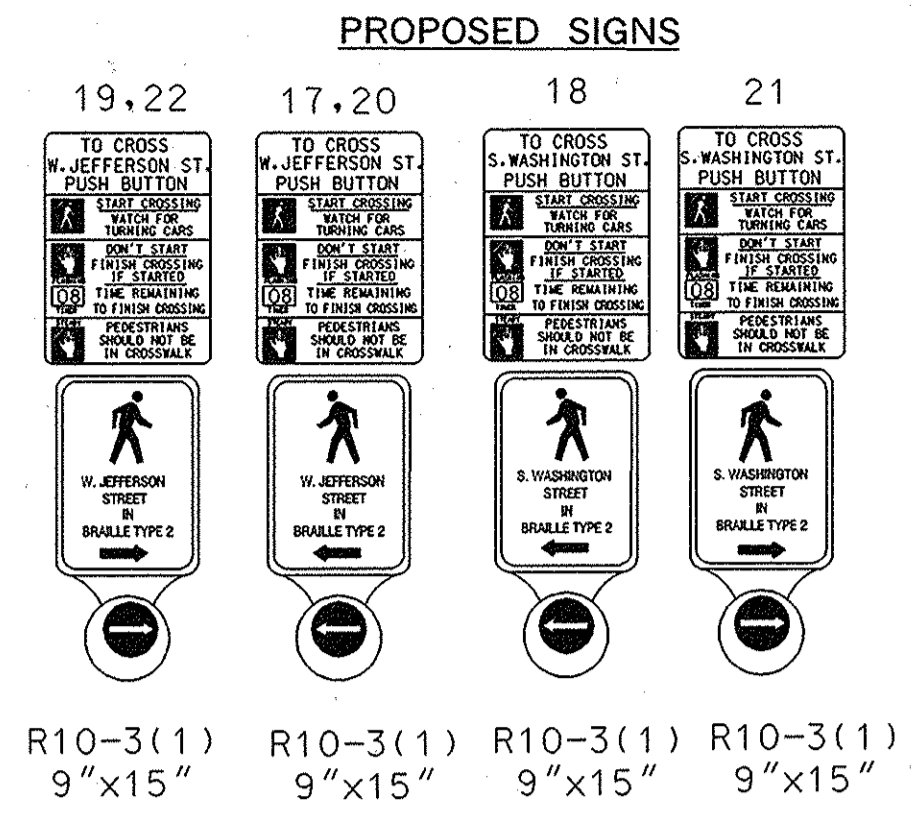
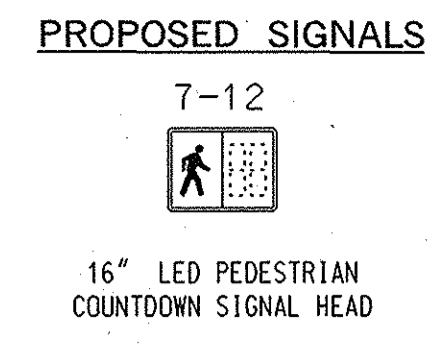
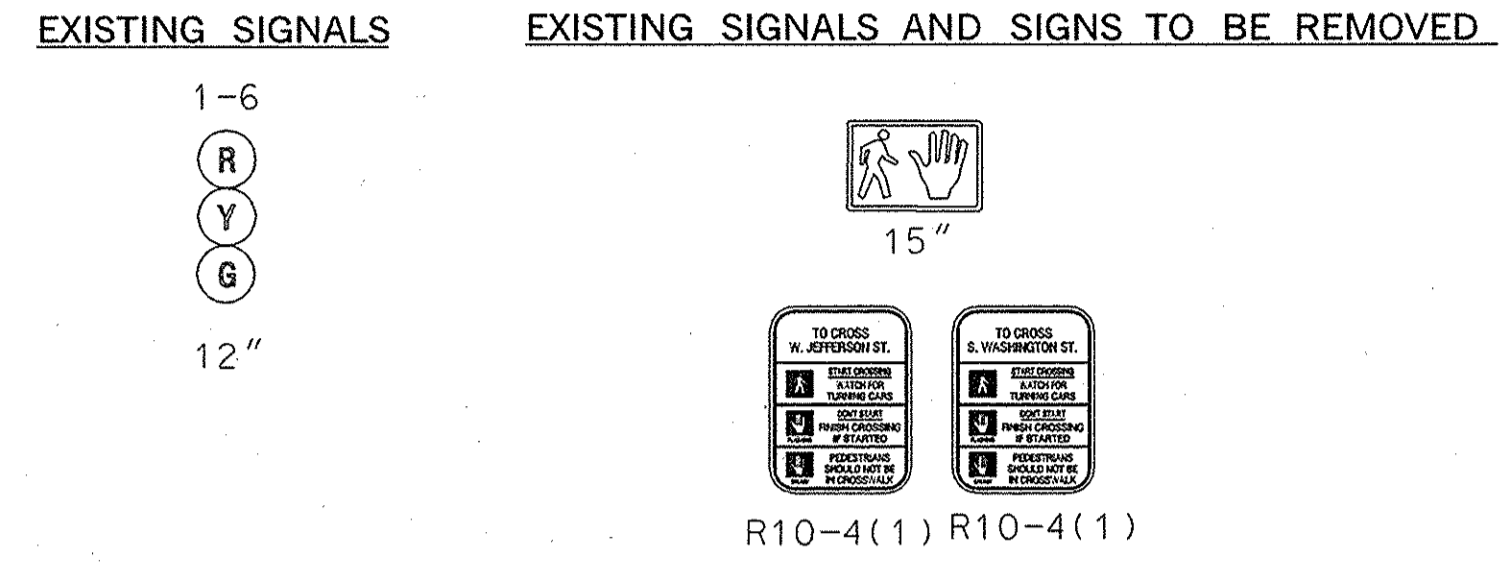
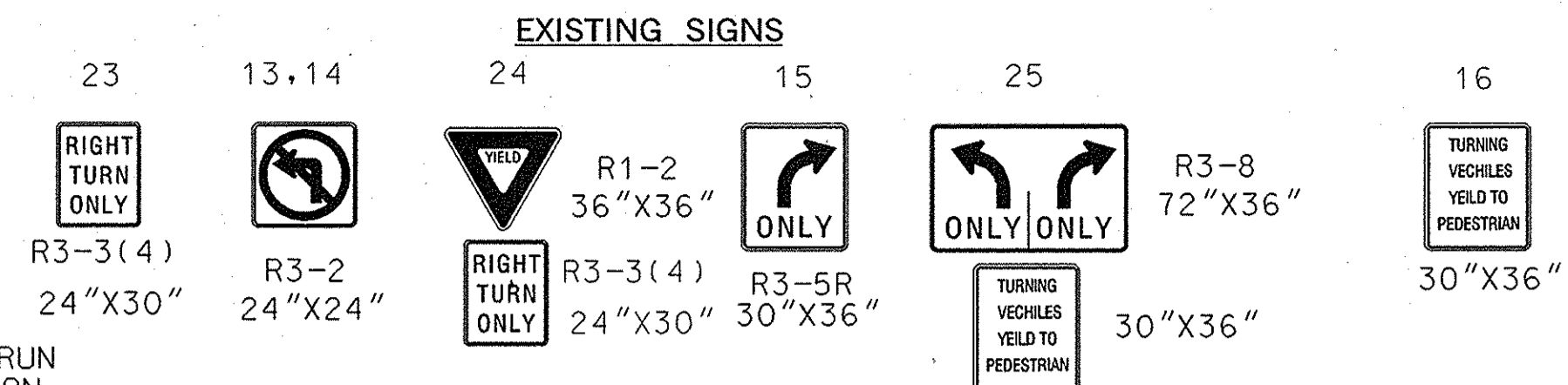


MD 28 IS CONSIDERED TO RUN
IN AN EAST-WEST DIRECTION



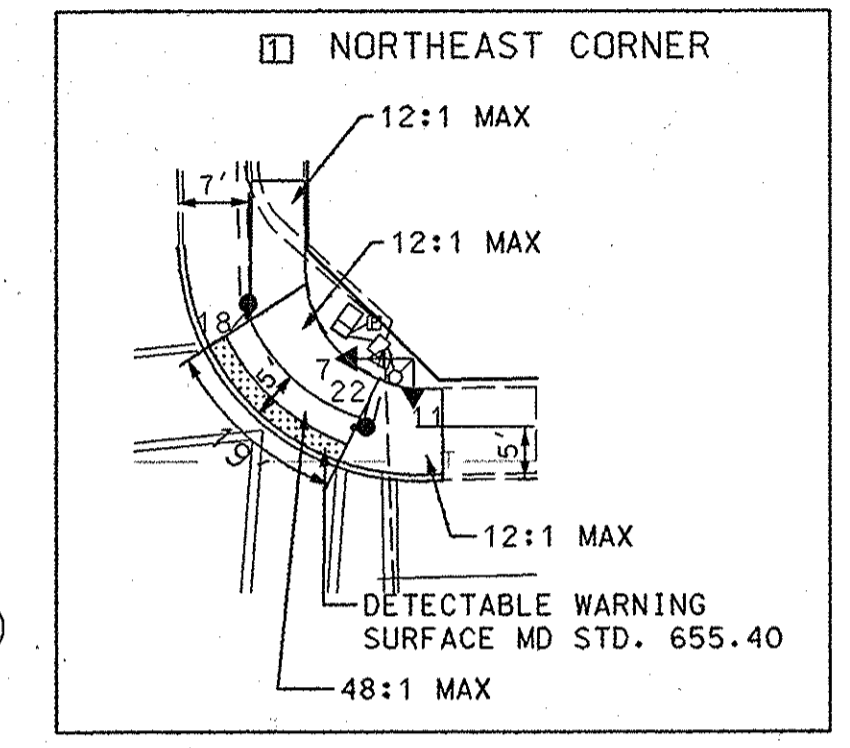
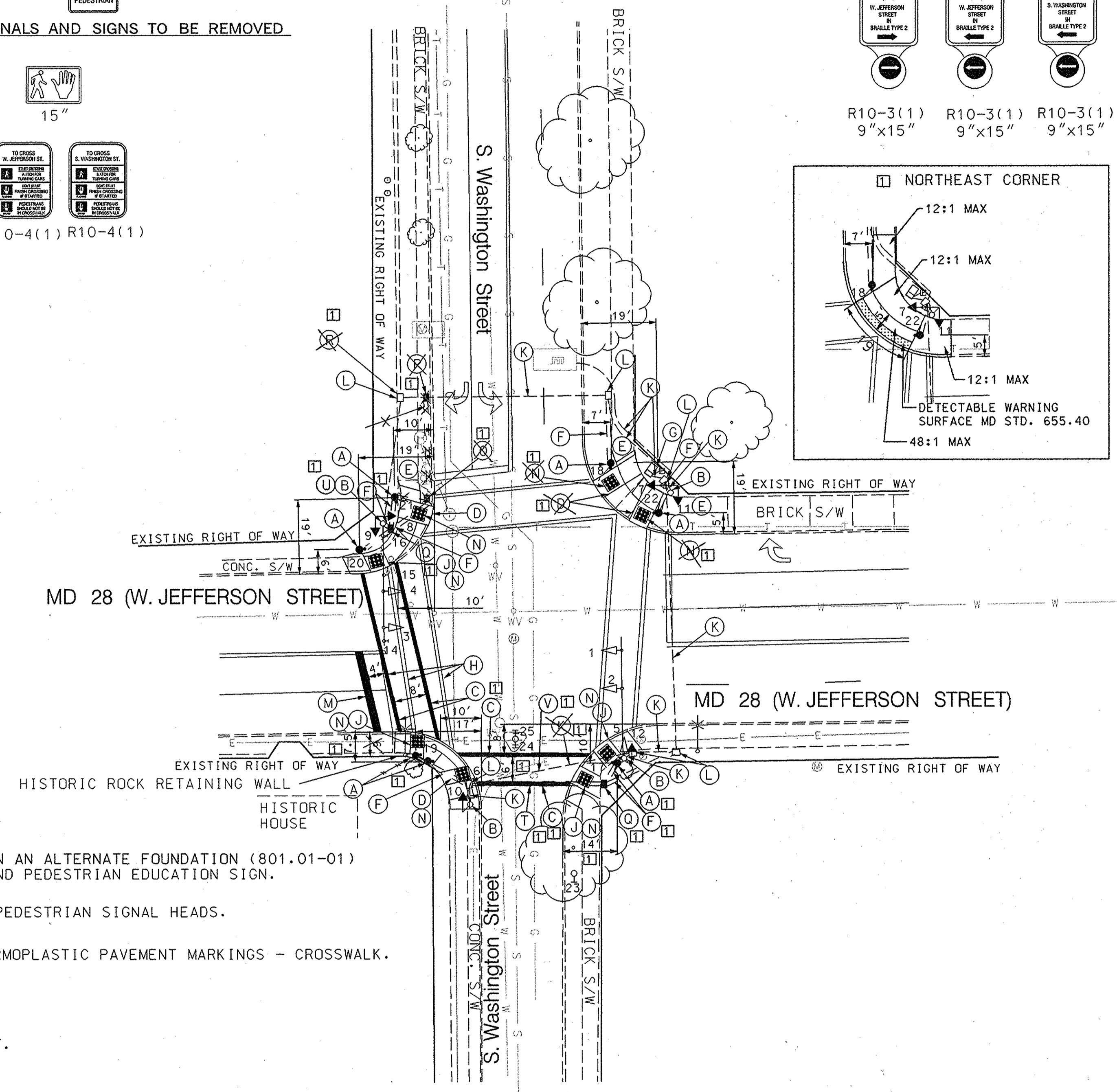
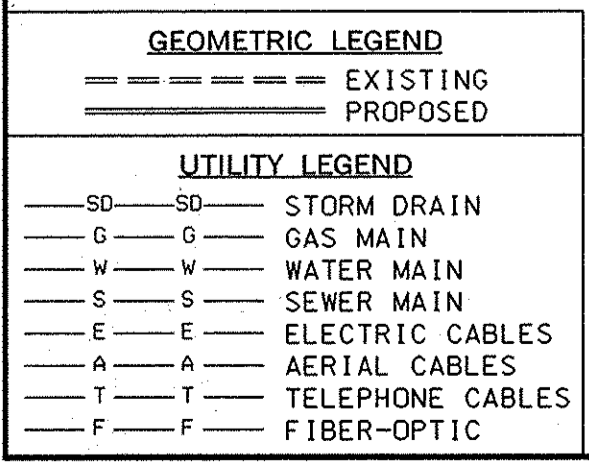
NOTE:
PHASES ASSOCIATED BY A DASHED LINE
WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE
WILL NOT OPERATE CONCURRENTLY.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. CONTACT MCDPW&T TMC AT (240) 777-2100 (72) HOURS PRIOR TO MARKING UNDERGROUND SIGNAL EQUIPMENT
7. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATION UNTIL A REDESIGN CAN BE ACCOMPLISHED OR UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY."
8. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60" x 60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
9. PUSHBUTTONS ARE TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA, DOES NOT HAVE TO REACH MORE THAN 18 INCHES.
10. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
11. ALL UNUSED CABLES SHALL BE REMOVED FROM THE EXISTING CONDUITS AND HANDHOLES. THERE IS NO CHARGE FOR THIS PART OF THE PROJECT.

CONSTRUCTION DETAILS

1. INSTALL 5 FT. STEEL PEDESTAL POLE (FEDERAL GREEN 14036), ON AN ALTERNATE FOUNDATION (801.01-01) WITH BREAKAWAY BOLTS, AUDIBLE TACTILE PUSHBUTTON STATION AND PEDESTRIAN EDUCATION SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)
2. USE EXISTING POLE AND REMOVE EXISTING PUSHBUTTON SIGN AND PEDESTRIAN SIGNAL HEADS. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEADS.
3. INSTALL 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS - CROSSWALK.
4. INSTALL ADA COMBINATION HANDICAP RAMP SEE STD NO.: 655.13
5. REMOVE AND RESET DECORATIVE BRICK AND REPLACE IN KIND.
6. INSTALL 3" PVC CONDUIT - TRENCHED.
7. INSTALL 2 WIRE CENTRAL CONTROL UNIT IN THE EXISTING CABINET.
8. REMOVE EXISTING PAVEMENT MARKINGS.
9. INSTALL ADA PARALLEL HANDICAP RAMP SEE STD NO.: 655.12.
10. USE EXISTING CONDUIT AND REMOVE ALL UNUSED CABLES.
11. USE EXISTING ELECTRICAL HANDHOLE AND REMOVE ALL UNUSED CABLES.
12. INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS - STOP LINE.
13. INSTALL DETECTABLE WARNING SURFACES.
14. USE EXISTING POLE AND REMOVE EXISTING PUSHBUTTON SIGN AND PEDESTRIAN SIGNAL HEAD. INSTALL AUDIBLE TACTILE PUSHBUTTON STATION, COUNTDOWN PEDESTRIAN SIGNAL AND PEDESTRIAN EDUCATION SIGN.
15. LOCATE EXISTING CONDUIT AND INSTALL HANDHOLE ON EXISTING CONDUIT.
16. INSTALL HANDHOLE.
17. PULL BACK EXISTING INTERCONNECT.
18. INSTALL 4" PVC CONDUIT - SLOTTED
19. INSTALL 3" PVC CONDUIT BEND IN AN EXISTING FOUNDATION.
20. PULL BACK EXISTING CABLES, REMOVE UNUSED CABLES AND RUN ALL APPLICABLE CABLES THROUGH NEW CONDUIT.



BAI
BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045

1 REDLINE REVISION 9/28/07

APPROVALS	REVISIONS
TEAM LEADER	04/18/2007 INSTALL COUNTDOWN PEDS. APS AND ADA RAMP S.H.A. NO: A17825188 TMS NO: F065 M.S. W.M. 10/27/07 MAR: 10/11/07
ASST. DIV. CHIEF	09/27/2006 UPGRADE RED LIGHT CAMERA S.H.A. NO: TMS NO: F584 M.A.R.
DIVISION CHIEF	
OFFICE DIRECTOR	

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 28 AT S. WASHINGTON STREET
ROCKVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 09/1985 CONTRACT NO. ~~MD-28-34-312~~

DESIGNED BY JAMES W. BELL (ROCKVILLE) COUNTY MONTGOMERY
DRAWN BY CUTRO (Rockville) LOGMILE I5002822.03
CHECKED BY CUTRO (Rockville) T.I.M.S. NO. F065
F.A.P. NO. TOD NO.

DRAWING NO. TS-1734B SHEET NO. 1 OF 2

PLOTTED: FRIDAY, SEPTEMBER 28, 2007 AT 09:15 AM
FILE: X:\04-005 SIGNALS\MD28\DRAWINGS\TS-1734-001R.MD28.DGN